RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/511,989A_

Source: _PCT/10_

Date Processed by STIC: _8/2/05_

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RAW SEQUENCE LISTING   DATE: 08/02/2005
PATENT APPLICATION: **US/10/511,989A**   TIME: 15:07:06

Input Set : **A:\5470.368.ST25.txt**
Output Set: **N:\CRF4\08022005\J511989A.raw**

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 3 <110> APPLICANT: Ting, Jenny
 4         Linhoff, Michael
 5         Harton, Johnathan
 6         Williams, Kristi
 7         Lich, John
 8         O'Connor, William
 9         Moore, Christopher
10         Davis, Beckley
11         Brickey, W. Jane
12         Conti, Brian
13         Zhang, Jinghua
14         Zhu, Xin-Sheng
16 <120> TITLE OF INVENTION: CATERPILLER GENE FAMILY
18 <130> FILE REFERENCE: 5470-368
20 <140> CURRENT APPLICATION NUMBER: US 10/511,989A
21 <141> CURRENT FILING DATE: 2004-10-21
23 <150> PRIOR APPLICATION NUMBER: PCT/US03/13562
24 <151> PRIOR FILING DATE: 2003-04-30
26 <150> PRIOR APPLICATION NUMBER: US 60/376,626
27 <151> PRIOR FILING DATE: 2002-04-30
29 <160> NUMBER OF SEQ ID NOS: 187
31 <170> SOFTWARE: PatentIn version 3.3
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 3731
35 <212> TYPE: DNA
36 <213> ORGANISM: Homo sapiens
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43 gtgaatgatg caatggaagg tgtgctgggg tcgccctgtg tcccgtgcat aggagcatct  180
45 cagcctccag gtcctctcct ttggggctta cggcaccccc atgctacgaa ccgcaggcag  240
47 ggacggcctc tgtcgcctgt ccacctactt ggaagaactc gaggctgtgg aactgaagaa  300
49 gttcaagtta tacctgggga ccgcgacaga gctgggagaa ggcaagatcc cctgggggaag  360
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67 cgagccaccg cgcaccgtgg tcatgcaagg cgcggcaggg ataggcaagt ccatgctggc  900
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159 atcctagcac ttcgagaggc cgaggcaggt ggatcacgag gtcaggagtt tgagattagc   3660
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167 <211> LENGTH: 1062
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178             20                  25                  30
181 Gly Thr Ala Thr Glu Leu Gly Glu Gly Lys Ile Pro Trp Gly Ser Met
182         35                  40                  45
185 Glu Lys Ala Gly Pro Leu Glu Met Ala Gln Leu Leu Ile Thr His Phe
186         50                  55                  60
189 Gly Pro Glu Glu Ala Trp Arg Leu Ala Leu Ser Thr Phe Glu Arg Ile
190 65                  70                  75                  80
193 Asn Arg Lys Asp Leu Trp Glu Arg Gly Gln Arg Glu Asp Leu Val Arg
194             85                  90                  95
197 Asp Thr Pro Pro Gly Gly Pro Ser Ser Leu Gly Asn Gln Ser Thr Cys
198             100                 105                 110
201 Leu Leu Glu Val Ser Leu Val Thr Pro Arg Lys Asp Pro Gln Glu Thr
202         115                 120                 125
205 Tyr Arg Asp Tyr Val Arg Arg Lys Phe Arg Leu Met Glu Asp Arg Asn
206         130                 135                 140
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210 145             150                 155                 160
213 Leu Leu Val Lys Glu His Ser Asn Pro Met Gln Val Gln Gln Gln Leu
214             165                 170                 175
217 Leu Asp Thr Gly Arg Gly His Ala Arg Thr Val Gly His Gln Ala Ser
218             180                 185                 190
221 Pro Ile Lys Ile Glu Thr Leu Phe Glu Pro Asp Glu Glu Arg Pro Glu
222         195                 200                 205
225 Pro Pro Arg Thr Val Val Met Gln Gly Ala Ala Gly Ile Gly Lys Ser
226         210                 215                 220
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230 225             230                 235                 240
233 Gln Gly Arg Phe Asp Tyr Leu Phe Tyr Ile Asn Cys Arg Glu Met Asn
234             245                 250                 255
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238             260                 265                 270
241 Pro Glu Pro Ser Ala Pro Leu Gln Glu Leu Ile Arg Val Pro Glu Arg
242         275                 280                 285
245 Leu Leu Phe Ile Ile Asp Gly Phe Asp Glu Leu Lys Pro Ser Phe His
246         290                 295                 300
249 Asp Pro Gln Gly Pro Trp Cys Leu Cys Trp Glu Glu Lys Arg Pro Thr
250 305             310                 315                 320
253 Glu Leu Leu Leu Asn Ser Leu Ile Arg Lys Lys Leu Leu Pro Glu Leu
254             325                 330                 335
257 Ser Leu Leu Ile Thr Thr Arg Pro Thr Ala Leu Glu Lys Leu His Arg
258             340                 345                 350
261 Leu Leu Glu His Pro Arg His Val Glu Ile Leu Gly Phe Ser Glu Ala
262         355                 360                 365
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266     370                 375                 380
269 Gly Gln Val Phe Asn Tyr Val Arg Asp Asn Glu Pro Leu Phe Thr Met
270 385                 390                 395                 400
273 Cys Phe Val Pro Leu Val Cys Trp Val Val Cys Thr Cys Leu Gln Gln
274                 405                 410                 415
277 Gln Leu Glu Gly Gly Gly Leu Leu Arg Gln Thr Ser Arg Thr Thr Thr
278             420                 425                 430
281 Ala Val Tyr Met Leu Tyr Leu Leu Ser Leu Met Gln Pro Lys Pro Gly
282         435         .           440                 445
285 Ala Pro Arg Leu Gln Pro Pro Pro Asn Gln Arg Gly Leu Cys Ser Leu
286     450                 455                 460
289 Ala Ala Asp Gly Leu Trp Asn Gln Lys Ile Leu Phe Glu Glu Gln Asp
290 465                 470                 475                 480
293 Leu Arg Lys His Gly Leu Asp Gly Glu Asp Val Ser Ala Phe Leu Asn
294                 485                 490                 495
297 Met Asn Ile Phe Gln Lys Asp Ile Asn Cys Glu Arg Tyr Tyr Ser Phe
298             500                 505                 510
301 Ile His Leu Ser Phe Gln Glu Phe Phe Ala Ala Met Tyr Tyr Ile Leu
302         515                 520                 525
305 Asp Glu Gly Glu Gly Gly Ala Gly Pro Asp Gln Asp Val Thr Arg Leu
306     530                 535                 540
309 Leu Thr Glu Tyr Ala Phe Ser Glu Arg Ser Phe Leu Ala Leu Thr Ser
310 545                 550                 555                 560
313 Arg Phe Leu Phe Gly Leu Leu Asn Glu Glu Thr Arg Ser His Leu Glu
314                 565                 570                 575
317 Lys Ser Leu Cys Trp Lys Val Ser Pro His Ile Lys Met Asp Leu Leu
318             580                 585                 590
321 Gln Trp Ile Gln Ser Lys Ala Gln Ser Asp Gly Ser Thr Leu Gln Gln
322         595   .             600                 605
325 Gly Ser Leu Glu Phe Phe Ser Cys Leu Tyr Glu Ile Gln Glu Glu Glu
326     610                 615                 620
329 Phe Ile Gln Gln Ala Leu Ser His Phe Gln Val Ile Val Val Ser Asn
330 625                 630                 635                 640
333 Ile Ala Ser Lys Met Glu His Met Val Ser Ser Phe Cys Leu Lys Arg
334             645                 650                 655
337 Cys Arg Ser Ala Gln Val Leu His Leu Tyr Gly Ala Thr Tyr Ser Ala
338         660                 665                 670
341 Asp Gly Glu Asp Arg Ala Arg Cys Ser Ala Gly Ala His Thr Leu Leu
342     675                 680                 685
345 Val Gln Leu Arg Pro Glu Arg Thr Val Leu Leu Asp Ala Tyr Ser Glu
346     690                 695                 700
349 His Leu Ala Ala Ala Leu Cys Thr Asn Pro Asn Leu Ile Glu Leu Ser
350 705                 710                 715                 720
353 Leu Tyr Arg Asn Ala Leu Gly Ser Arg Gly Val Lys Leu Leu Cys Gln
354             725                 730                 735
357 Gly Leu Arg His Pro Asn Cys Lys Leu Gln Asn Leu Arg Leu Lys Arg
358             740                 745                 750
361 Cys Arg Ile Ser Ser Ser Ala Cys Glu Asp Leu Ser Ala Ala Leu Ile
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RAW SEQUENCE LISTING   DATE: 08/02/2005
PATENT APPLICATION: **US/10/511,989A**   TIME: 15:07:06

Input Set : **A:\5470.368.ST25.txt**
Output Set: **N:\CRF4\08022005\J511989A.raw**

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366     770                 775                 780
369 Phe Pro Gly Met Met Leu Leu Cys Glu Gly Leu Arg His Pro Gln Cys
370 785                 790                 795                 800
373 Arg Leu Gln Met Ile Gln Leu Arg Lys Cys Gln Leu Glu Ser Gly Ala
374             805                 810                 815
377 Cys Gln Glu Met Ala Ser Val Leu Gly Thr Asn Pro His Leu Val Glu
378             820                 825                 830
381 Leu Asp Leu Thr Gly Asn Ala Leu Glu Asp Leu Gly Leu Arg Leu Leu
382         835                 840                 845
385 Cys Gln Gly Leu Arg His Pro Val Cys Arg Leu Arg Thr Leu Trp Leu
386     850                 855                 860
389 Lys Ile Cys Arg Leu Thr Ala Ala Ala Cys Asp Glu Leu Ala Ser Thr
390 865                 870                 875                 880
393 Leu Ser Val Asn Gln Ser Leu Arg Glu Leu Asp Leu Ser Leu Asn Glu
394             885                 890                 895
397 Leu Gly Asp Leu Gly Val Leu Leu Leu Cys Glu Gly Leu Arg His Pro
398         900                 905                 910
401 Thr Cys Lys Leu Gln Thr Leu Arg Leu Gly Ile Cys Arg Leu Gly Ser
402         915                 920                 925
405 Ala Ala Cys Glu Gly Leu Ser Val Val Leu Gln Ala Asn His Asn Leu
406     930                 935                 940
409 Arg Glu Leu Asp Leu Ser Phe Asn Asp Leu Gly Asp Trp Gly Leu Trp
410 945                 950                 955                 960
413 Leu Leu Ala Glu Gly Leu Gln His Pro Ala Cys Arg Leu Gln Lys Leu
414             965                 970                 975
417 Trp Leu Asp Ser Cys Gly Leu Thr Ala Lys Ala Cys Glu Asn Leu Tyr
418             980                 985                 990
421 Phe Thr Leu Gly Ile Asn Gln Thr  Leu Thr Asp Leu Tyr  Leu Thr Asn
422         995                 1000                1005
425 Asn Ala  Leu Gly Asp Thr Gly  Val Arg Leu Leu Cys  Lys Arg Leu
426     1010                1015                1020
429 Ser His  Pro Gly Cys Lys Leu  Arg Val Leu Trp Leu  Phe Gly Met
430     1025                1030                1035
433 Asp Leu  Asn Lys Met Thr His  Ser Arg Leu Ala Ala  Leu Arg Val
434     1040                1045                1050
437 Thr Lys  Pro Tyr Leu Asp Ile  Gly Cys
438     1055                1060
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442 <211> LENGTH: 3563
443 <212> TYPE: DNA
444 <213> ORGANISM: Homo sapiens
446 <400> SEQUENCE: 3
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451 gtgaatgatg caatggaagg tgtgctgggg tcgccctgtg tcccgtgcat aggagcatct     180
453 cagcctccag gtcctctcct ttggggctta cggcaccccc atgctacgaa ccgcaggcag     240
455 ggacggcctc tgtcgcctgt ccacctactt ggaagaactc gaggctgtgg aactgaagaa     300
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/02/2005
PATENT APPLICATION: US/10/511,989A   TIME: 15:07:07

Input Set : A:\5470.368.ST25.txt
Output Set: N:\CRF4\08022005\J511989A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:93; Xaa Pos.  2,3
Seq#:94; Xaa Pos.  1,2,3,4
Seq#:95; Xaa Pos.  1,3
Seq#:150; Xaa Pos.  1,6,8,11,18,19,20,21,23,26,28,30
Seq#:151; Xaa Pos.  2,3,4,6,7,8,10,12,13,14,15,16,17,18,20,21,22,25,26,27,28
Seq#:152; Xaa Pos.  1,3,4,5,7,13
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Seq#:154; Xaa Pos.  2,3,4,6,7,8,9,10,11,12,13,14,19,20,21,22,23,24,27,28,29
Seq#:154; Xaa Pos.  30,31
Seq#:155; Xaa Pos.  2,3,5,6,7,8,9,10,12,13,15,16,17,19,22,23,26,29,30,32,33
Seq#:155; Xaa Pos.  35,36,37
Seq#:156; Xaa Pos.  2,4,5,6,7,8,9,10,11,12,13,14
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Seq#:157; Xaa Pos.  35,36,39,40,41,42,43
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Seq#:176; Xaa Pos.  178,347
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VERIFICATION SUMMARY   DATE: 08/02/2005
PATENT APPLICATION: **US/10/511,989A**   TIME: 15:07:07

Input Set : **A:\5470.368.ST25.txt**
Output Set: **N:\CRF4\08022005\J511989A.raw**

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L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:6719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0
L:6739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0
L:6759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0
L:6784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
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M:341 Repeated in SeqNo=151
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